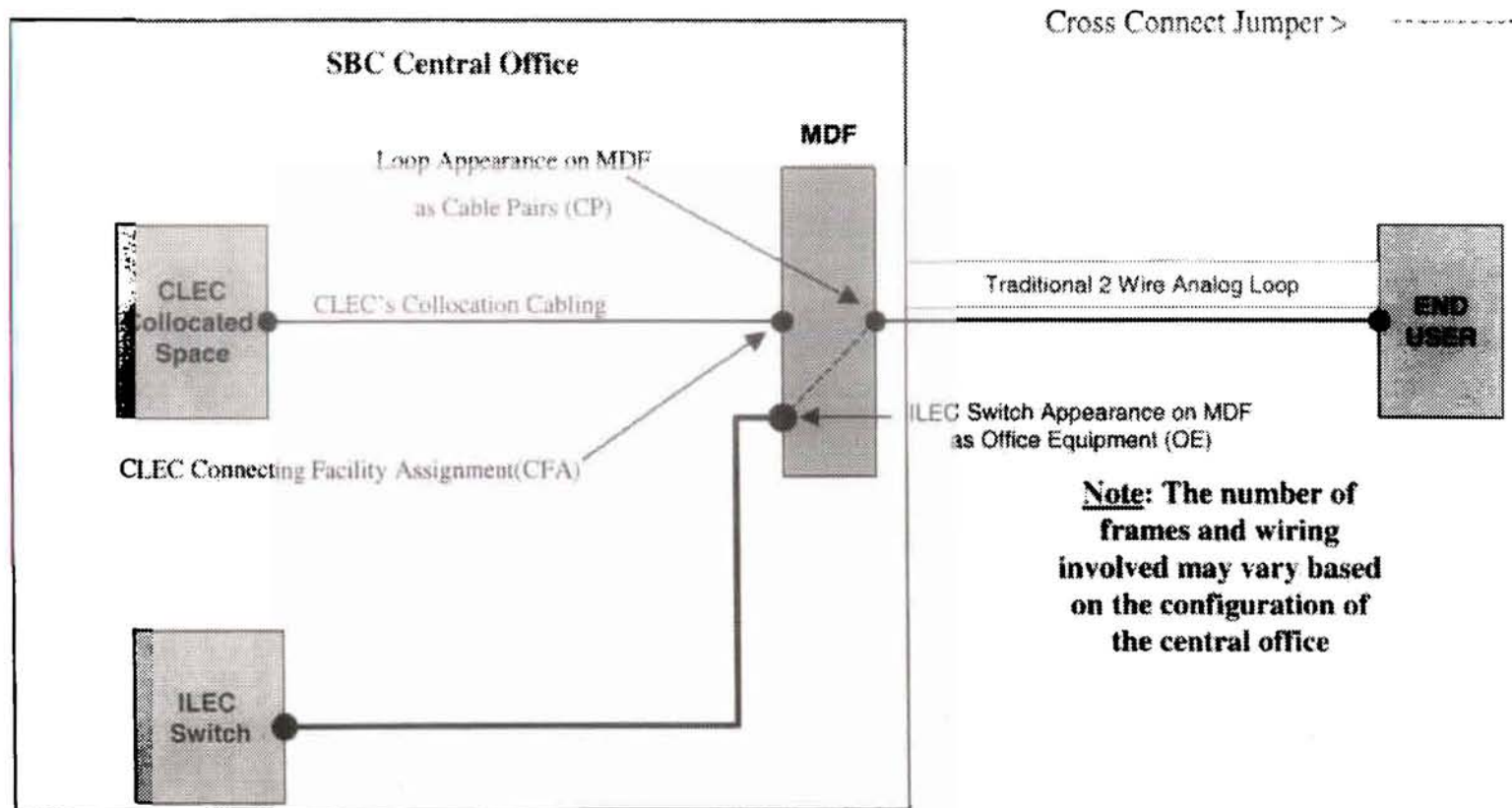


**Appendix 1**  
**Schematic Diagram Illustrating Hot Cut Process**  
**At a Typical SBC Central Office**

The attached diagram (excerpted from Exhibit 16, Attachment Diagram of the Joint Testimony of SBC Witnesses Chapman, et al., illustrates the typical process for performing a hot cut. In any hot cut, the ILEC must perform two manual wiring activities at the main distribution frame: (1) pre-wiring and (2) actual loop cutover. During the prewiring stage, a technician places a jumper between the CLEC tie facility connecting the CLEC's collocation cage to the ILEC central office and the customer loop. The jumper is terminated at the tie facility, but not at the loop side. When the cut is scheduled to begin, the jumper that is connected to the loop side of the existing loop/port arrangement is disconnected. The jumper connected to the receiving CLEC's tie facility is terminated in its place. This completes a circuit between the CLEC facility in its collocation cage and the customer's loop, thereby accomplishing the cut.

## Typical SBC California Central Office



**Diagram 1**

### Step 1 - Pre - wire Process SBC California

Place new jumper between CLEC Facility Assignment on MDF and appearance of end user's loop on MDF. The jumper is only put in place (and not electrically connected to loop appearance) until next step, when hot cut is performed.

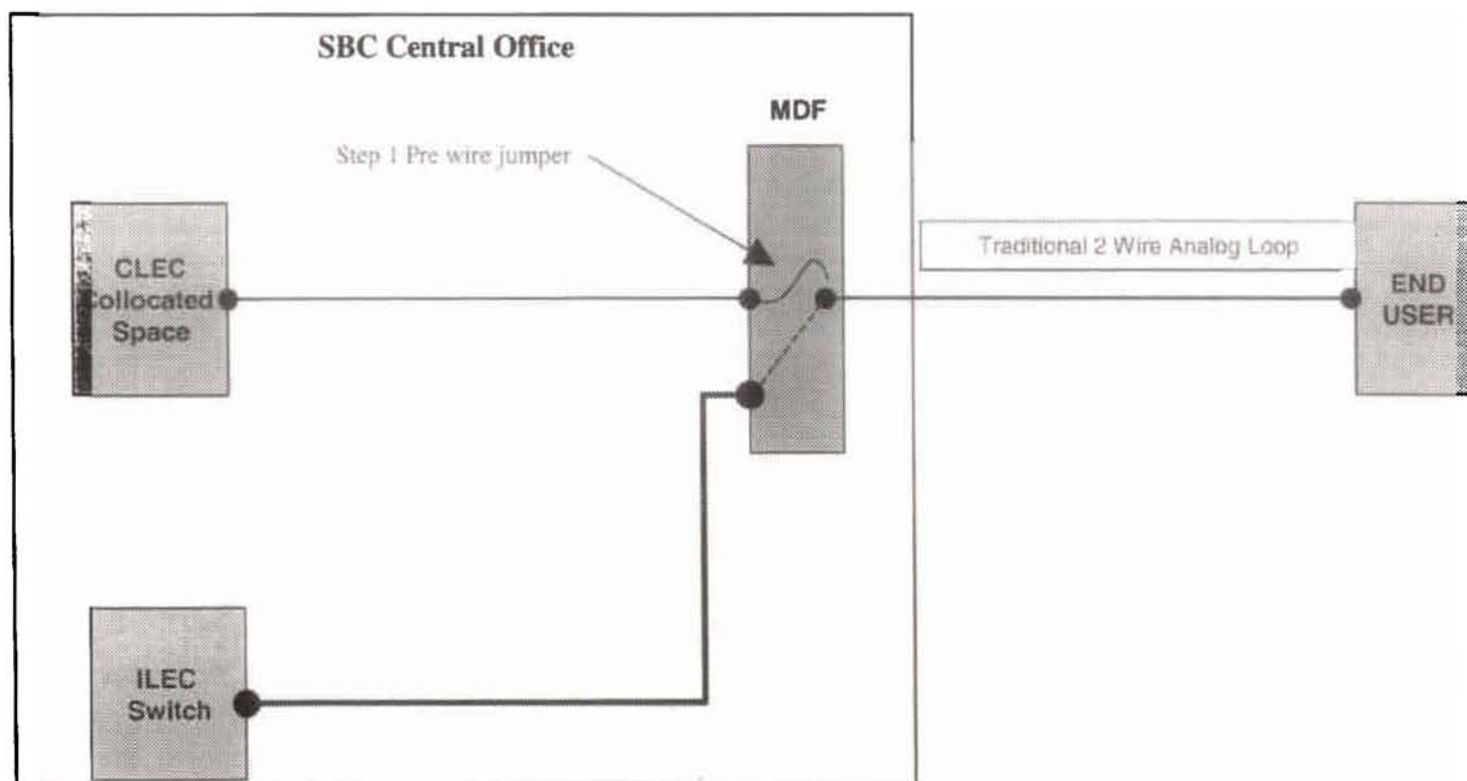
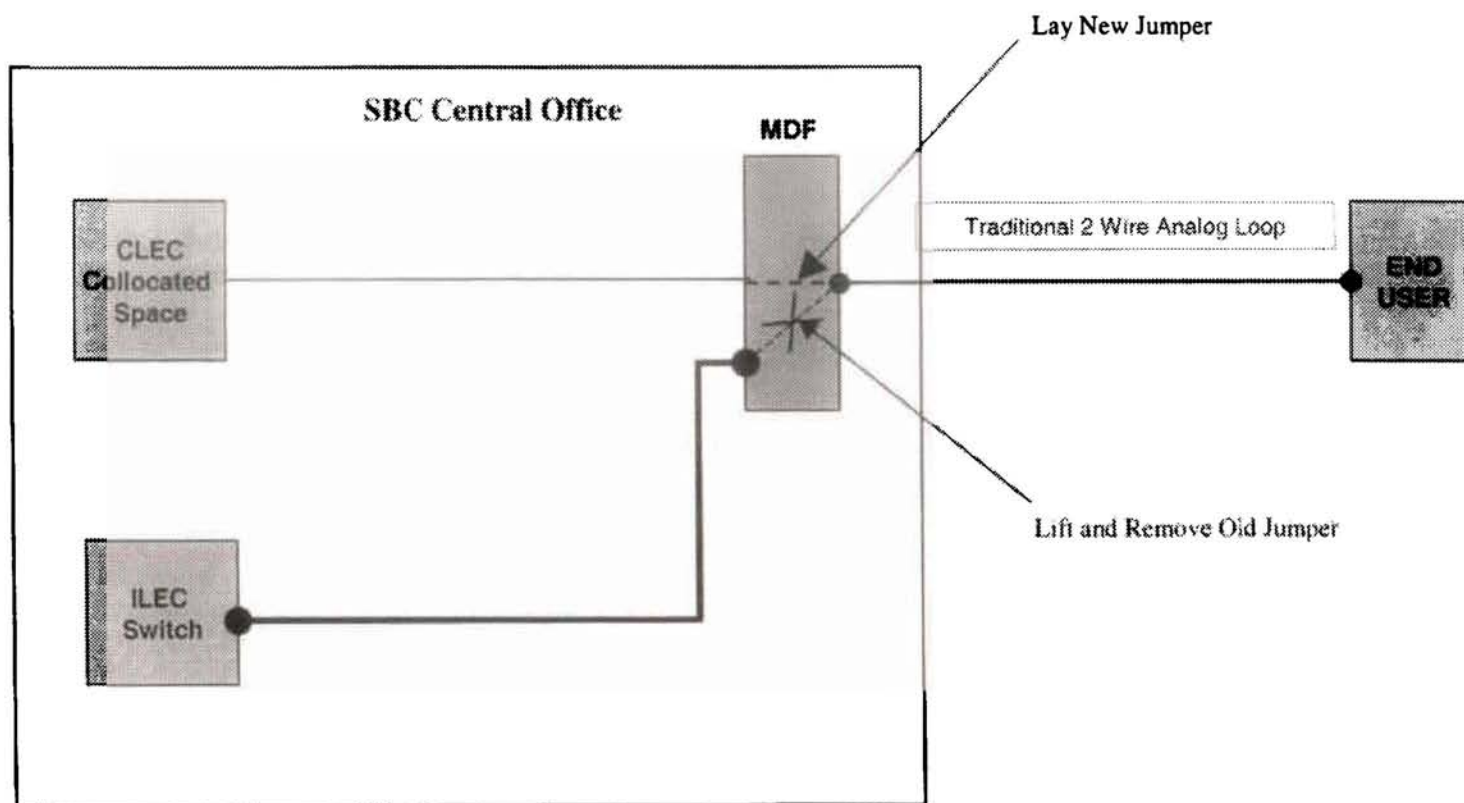


Diagram 2

**Step 2 - Hot Cut using Frame Due Time (FDT) or Coordinated Hot Cut (CHC) Processes SBC California**  
**Lift old jumper to disconnect the loop from SBC switch and Lay the new jumper to connect the loop to the CLEC**  
**switch. Remove old jumper(s) and close order.**

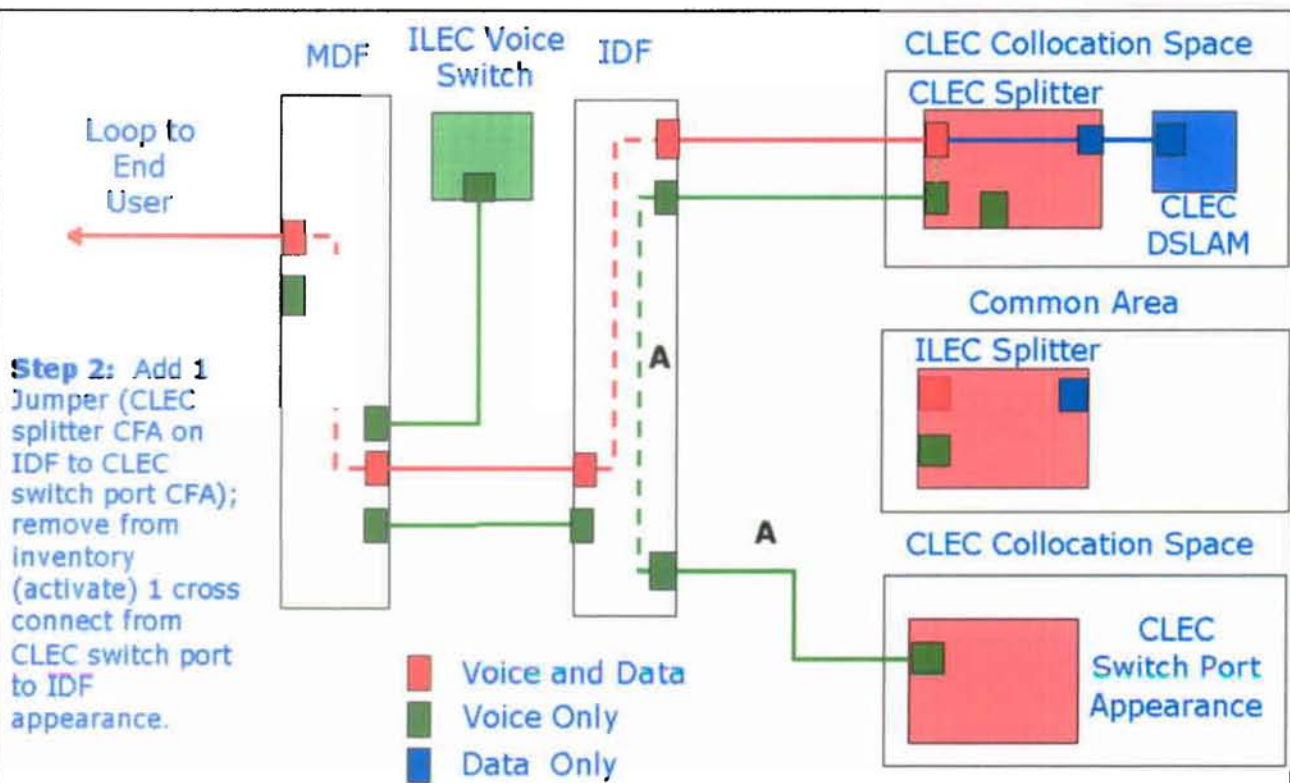
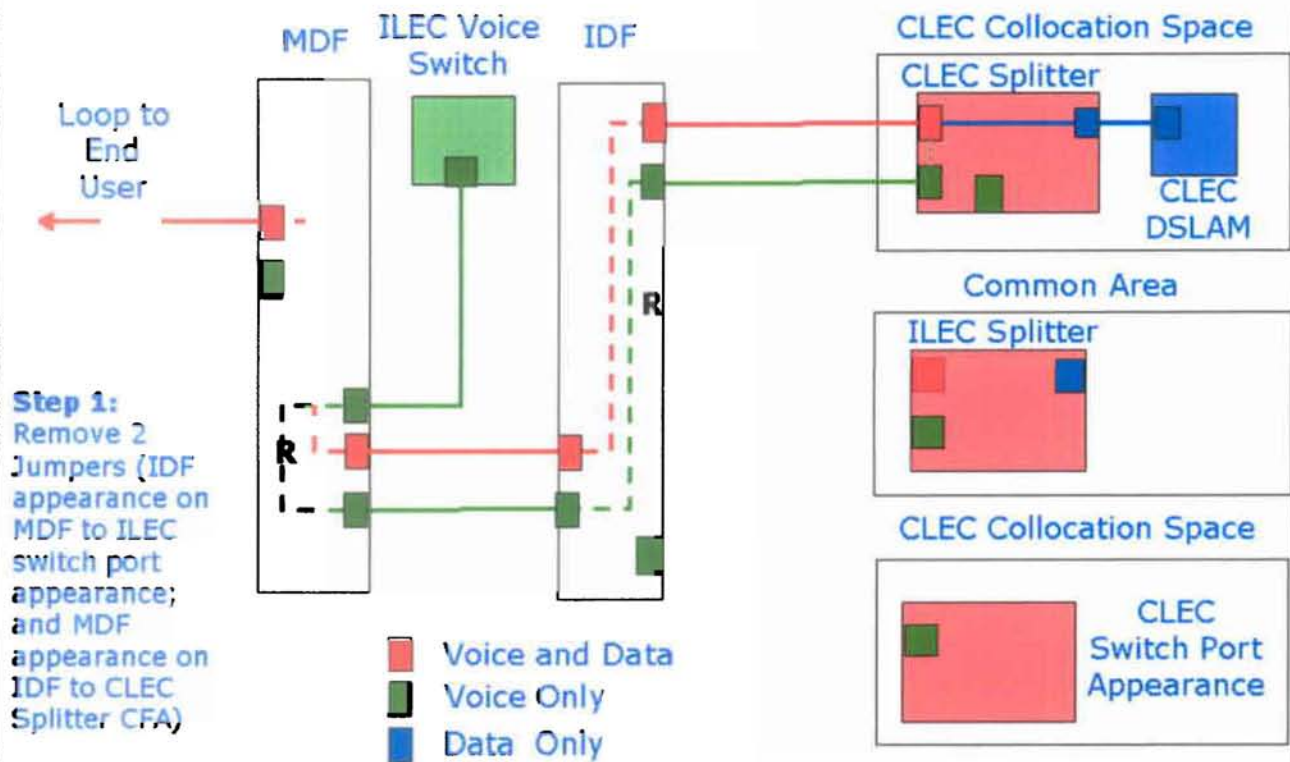


**Diagram 3**

**Appendix 2**  
**Schematic Diagram Illustrating**  
**Hot Cut for Line Splitting**

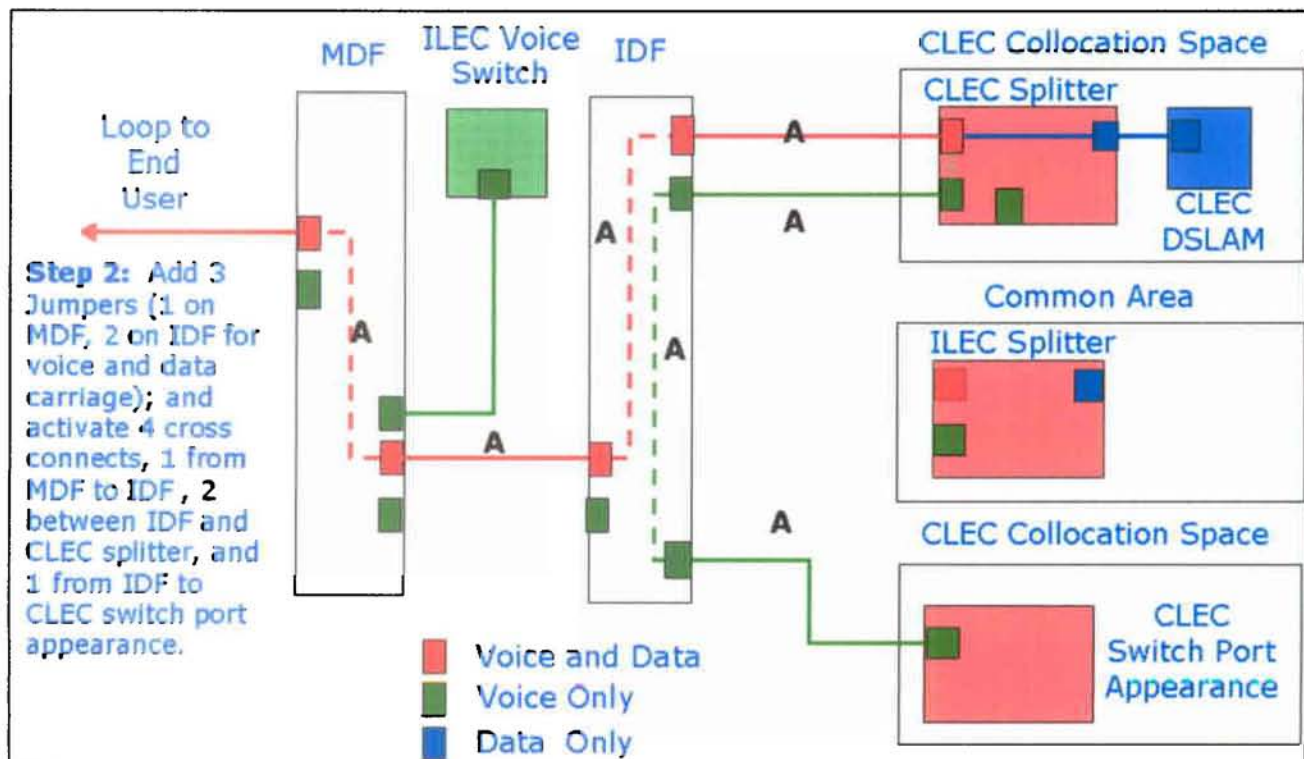
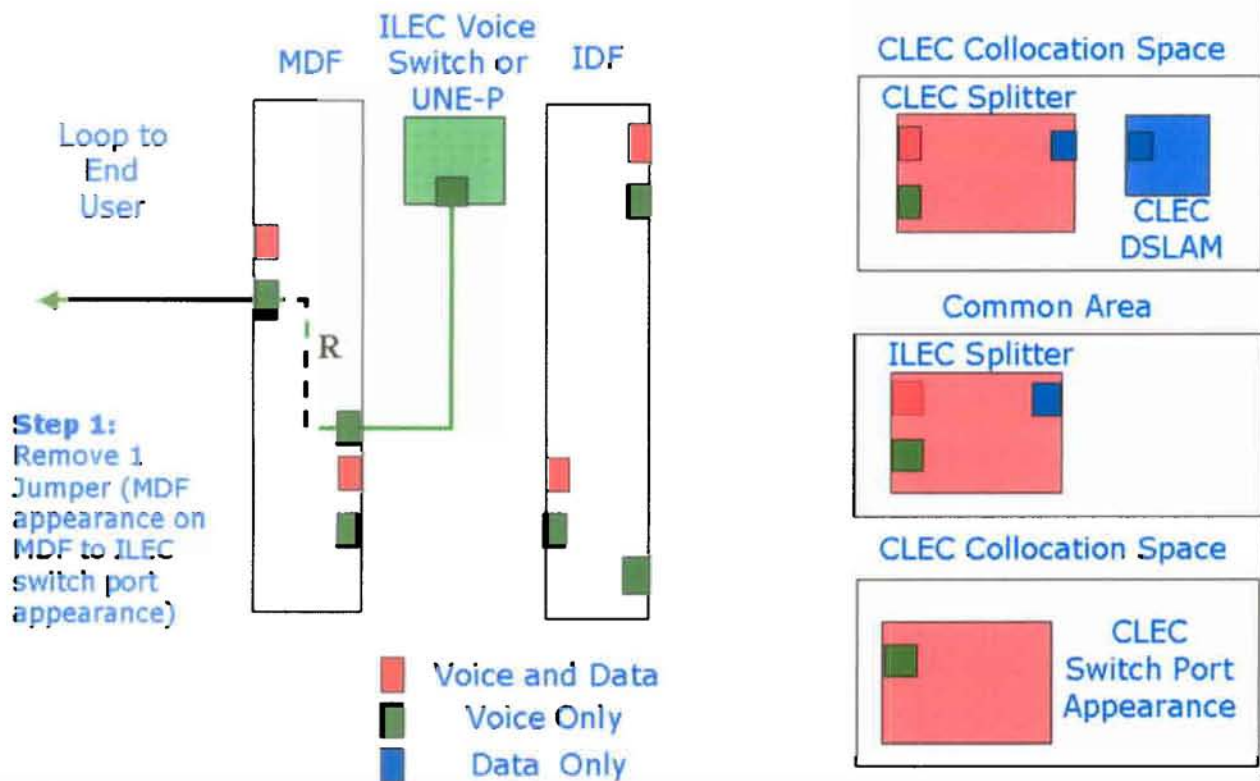
The following two diagrams illustrate the four hot cut line-splitting migration scenarios proposed by Covad whereby the ILEC provides a cross connection of CLEC collocation facilities at the applicable distribution frame. The diagrams are based upon Exhibit 99 (Testimony of Casie Murphy on behalf of Covad), Appendix KLM.

**Proposed Hot Cut for Line Splitting over UNE-P to Line Splitting over UNE-L**





### Proposed Hot Cut For ILEC Voice and UNE-P To Line Splitting Over UNE-L



## **Glossary of Terms Used in Appendix 2**

<b>CFA</b>	Carrier Facilities Assignments are used to identify and inventory the physical communications channels that connect facilities within a central office.
<b>Cross Connect</b>	Cross Connects are the physical communication channels, including wires and cables, which connect facilities within a central office.
<b>DSLAM</b>	Digital Subscriber Line Access Multiplexers are devices used to provide high-speed data transmission and voice services simultaneously over traditional twisted-pair wiring.
<b>IDF</b>	Intermediate Distribution Frames are wiring arrangements, usually in the form of metal racks or frames, which provide connection points between the Main Distribution Frame (MDF) and the facilities of CLECS that are collocated in central offices.
<b>Jumper</b>	Jumpers are wires used to connect equipment and cables within both the Intermediate Distribution Frames (IDF) and also within the Main Distribution Frames (MDF).
<b>MDF</b>	Main Distribution Frames are wiring arrangements, usually in the form of metal racks or frames, that connect end user lines to internal switching equipment in central offices.
<b>Ports</b>	Ports are physical interfaces, such as a plug and socket arrangement, between the switch and the incoming lines in a central office.
<b>Splitters</b>	Splitters are devices that split an incoming bitstream into voice and data components.

**(End of Appendix 2)**



**Appendix 3**  
**SBC Batch Hot Cut Rates**  
**SBC-Proposed and Commission-Adopted**

**Hot Cut Process Category**

**Enhanced Daily Process**

(Charges are per-line, per central office, per CLEC)

	<b><u>SBC- Proposed</u></b>	<b><u>Prices CPUC Adopted<sup>1</sup></u></b>
Frame Due Time Option	\$14.70	\$10.47
Coordinated Hot Cut Option	\$20.73	\$14.97
Integrated Digital Loop Carrier Option	\$79.09	\$69.25

**Defined Batch Process**

(Charges are per-hour, per-line, per central office, per CLEC)

Frame Due Time Option		
Basic Hours (M-F, 8 AM – 5 PM)	\$10.61	\$8.81
Expanded Hours (M-F 6 AM – 8 AM)	\$10.74	\$9.16
Coordinated Hot Cut Option		
Basic Hours (M-F, 8 AM – 5 PM)	\$12.70	\$10.29
Expanded Hours (M-F 6 AM – 8 AM, 5 PM – 12 AM, Sat 8 AM – 5 PM)	\$12.75	\$10.59
Integrated Digital Loop Carrier Option		
Basic Hours (M-F, 8 AM – 5 PM)	\$77.35	\$68.82

**Bulk Project Process**

Frame Due Time Option		
Basic Hours (M-F, 8 AM – 5 PM)	\$10.58	\$ 8.81
Expanded Hours (M-F 6 AM – 8 AM, 5 PM – 12 AM, Sat 8 AM – 12 AM)	\$10.71	\$ 9.15
Premium Hours (M-F 12 AM – 6 AM, Sat 12 AM – 8 AM)	\$11.31	\$9.57
Coordinated Hot Cut Option		
Basic Hours (M-F, 8 AM – 5 PM)	\$12.67	\$10.27
Expanded Hours (M-F 6 AM – 8 AM, 5 PM – 12 AM, Sat 8 AM – 12 AM)	\$12.72	\$10.58
Premium (M-F 12 AM – 6 AM, Sat 12 AM – 8 AM)	\$13.56	\$11.13
Integrated Digital Loop Carrier Option		
Basic Hours (M-F, 8 AM – 5 PM)	\$77.33	\$68.82

<sup>1</sup> The Commission-adopted rates are derived by making the adjustments detailed in Appendix 2 (attached) to SBC's costs in Ex. 84C (Proprietary and Confidential Cost Study Table in Testimony of Scott P. Pearsons. The prices incorporate a shared and common cost markup of 21% pursuant to D. 03-07-023.

**Appendix 4**  
**Explanation of Commission-Adopted Adjustments**  
**to SBC TELRIC for Hot Cuts**

The attached schedule sets forth an explanation of the adjustments that we have made to SBC's TELRIC estimates for each of its proposed Hot Cut pricing plans, as discussed in the body of this order. For each cost adjustment, reference is made to the applicable line numbers in SBC's TELRIC cost study table set forth as Attachment 1 (Proprietary and Confidential) to the Testimony of Scott P. Pearsons (Ex.84C). Because the individual cost elements are proprietary, we do not reproduce them here. But the Commission-adopted costs can be derived using the adjustments detailed in this schedule. These adjustments form the basis for the Commission-revised TELRIC costs set forth in Appendix 1.

**SBC Batch Hot Cut Costs**  
**Explanation of Commission-Adopted Adjustments**

Cost Element	Line in Exh. 84C Att. 1	Explanation of Changes
FDT Daily	1, 3-4B	Change hourly rate to correct inconsistencies of base hour labor rates in SBC's cost study. SBC Witness Pearsons noted in his Testimony of January 7 that the labor rate for base hours (8 am to 5pm) are calculated by removing overtime and shift differentials from the average labor rate. See Exhibit 84 C at 10:15-24.
	1-2C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	3D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 3 are similar to tasks in lines 9 and 17. As an <u>additional resource driver</u> , the time for tasks in 3D shall be .5 minutes.
	5C, 5D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
CHC Daily	8-11B, 18B, 20-21B	Change hourly rate to correct inconsistencies of base hour labor rates in SBC's cost study. SBC Witness Pearsons noted in his Testimony of January 7 that the labor rate for base hours (8 am to 5pm) are calculated by removing overtime and shift differentials from the average labor rate. See Exhibit 84 C at 10:15-24.
	15C	Decrease time to 0 minutes. Task in line 15 is similar to task in line 13. Task in line 15 shall be included as part of task in line 14 without changing time in line 14.
	18-19C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	20D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 20 are similar to tasks in lines 9 and 17. As an <u>additional resource driver</u> , the time for tasks in 20D shall be .5 minutes.
	23C, 23D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
	25C, 25D	Decrease times to reflect times in similar tasks on line 5 in EDP/FDT and lines 13-16 in EDP/CHC.
IDLC Daily	27-30, 32B	Change hourly rate to correct inconsistencies of base hour labor rates in SBC's cost study. SBC Witness Pearsons noted in his Testimony of January 7 that the labor rate for base hours (8 am to 5pm) are calculated by removing overtime and shift differentials from the average labor rate. See Exhibit 84 C at 10:15-24.
	39C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	40D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 40 are similar to tasks in lines 28 and 38. As an <u>additional resource driver</u> , the time for tasks in 40D shall be .5 minutes.
	48C, 48D	Decrease times based on estimates in line 25.



**SBC Batch Hot Cut Costs**  
**Explanation of Commission-Adopted Adjustments**

Cost Element	Line in Exh. 84C Att. 1	Explanation of Changes
<b>FDT Basic Hours</b>	50,52-53B	Change hourly rate to correct inconsistencies of base hour labor rates in SBC's cost study. SBC Witness Pearsons noted in his Testimony of January 7 that the labor rate for base hours (8 am to 5pm) are calculated by removing overtime and shift differentials from the average labor rate. See Exhibit 84 C at 10:15-24.
	50-51C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	52D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 52 are similar to tasks in lines 28 and 38. As an <u>additional resource driver</u> , the time for tasks in 52D shall be .5 minutes.
	54C, 54D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
<b>FDT Expanded Hours</b>	58-59C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	60D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 60 are similar to tasks in lines 28 and 38. As an <u>additional resource driver</u> , the time for tasks in 60D shall be .5 minutes.
	62C, 62D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
<b>CHC Basic Hours</b>	65-69, 75, 77-78B	Change hourly rate to correct inconsistencies of base hour labor rates in SBC's cost study. SBC Witness Pearsons noted in his Testimony of January 7 that the labor rate for base hours (8 am to 5pm) are calculated by removing overtime and shift differentials from the average labor rate. See Exhibit 84 C at 10:15-24.
	72C	Decrease time to 0 minutes. Task in line 72 is similar to task in line 70 and shall be included as part of task in line 71 without changing time in
	75-76C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	77D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 77 are similar to tasks in lines 66 and 76. As an <u>additional resource driver</u> , the time for tasks in 77D shall be .5 minutes.
	80C, 80D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
	82C, 82D	Decrease times based on estimates in line 25.

**SBC Batch Hot Cut Costs**  
**Explanation of Commission-Adopted Adjustments**

Cost Element	Line in Exh. 84C Att. 1	Explanation of Changes
<b>CHC Expanded Hours</b>	91C	Decrease time to 0 minutes. Task in line 91 is similar to task in line 89 and shall be included as part of task in line 90 without changing time in
		Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	94-95C	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 96 are similar to tasks in lines 85 and 93. As an <u>additional resource driver</u> , the time for tasks in 96D shall be .5 minutes.
	96D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
	99C, 99D 101C, 101D	Decrease times based on estimates in line 25.
<b>IDLC Basic Hours</b>		Change hourly rate to correct inconsistencies of base hour labor rates in SBC's cost study. SBC Witness Pearsons noted in his Testimony of January 7 that the labor rate for base hours (8 am to 5pm) are calculated by removing overtime and shift differentials from the average labor rate. See Exhibit 84 C at 10:15-24.
	103-106, 108, 115-118aB	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	115C	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 116 are similar to tasks in lines 104 and 114. As an <u>additional resource driver</u> , the time for tasks in 116D shall be .5 minutes.
	116D	
	124C, 124D	Decrease times based on estimates in line 25.



**SBC Batch Hot Cut Costs**  
**Explanation of Commission-Adopted Adjustments**

Cost Element	Line in Exh. 84C Att. 1	Explanation of Changes
<b>FDT Basic Hours</b>	126,128-129B	Change hourly rate to correct inconsistencies of base hour labor rates in SBC's cost study. SBC Witness Pearsons noted in his Testimony of January 7 that the labor rate for base hours (8 am to 5pm) are calculated by removing overtime and shift differentials from the average labor rate. See Exhibit 84 C at 10:15-24.
	126-127C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	128D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 128 are similar to tasks in lines 104 and 114. As an <u>additional resource driver</u> , the time for tasks in 128D shall be .5 minutes.
	130C, 130D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
<b>FDT Expanded Hours</b>	133-134C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	135D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 135 are similar to tasks in lines 104 and 114. As an <u>additional resource driver</u> , the time for tasks in 135D shall be .5 minutes.
	137C, 137D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
<b>FDT Premium Hours</b>	140-141D	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	142D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 142 are similar to tasks in lines 104 and 114. As an <u>additional resource driver</u> , the time for tasks in 142D shall be .5 minutes.
<b>CHC Basic Hours</b>	147-151, 157, 159-160B	Change hourly rate to correct inconsistencies of base hour labor rates in SBC's cost study. SBC Witness Pearsons noted in his Testimony of January 7 that the labor rate for base hours (8 am to 5pm) are calculated by removing overtime and shift differentials from the average labor rate. See Exhibit 84 C at 10:15-24.
	154C	Decrease time to 0 minutes. Task in line 154 is similar to task in line 152 and shall be included as part of task in line 153 without changing time in line 153.
	157-158C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	159D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 159 are similar to tasks in lines 148 and 156. As an <u>additional resource driver</u> , the time for tasks in 159D shall be .5 minutes.
	162C, 162D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
	164C, 164D	Decrease times based on estimates in line 25.

**SBC Batch Hot Cut Costs**  
**Explanation of Commission-Adopted Adjustments**

Cost Element	Line in Exh. 84C Att. 1	Explanation of Changes
CHC Expanded Hours	173C	Decrease time to 0 minutes. Task in line 173 is similar to task in line 171 and shall be included as part of task in line 172 without changing time in line 172.
	176-177C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	178D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 178 are similar to tasks in lines 167 and 175. As an <u>additional resource driver</u> , the time for tasks in 178D shall be .5 minutes.
	180C, 180D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
	183C, 183D	Decrease times based on estimates in line 25.
CHC Premium Hours	192C	Decrease time to 0 minutes. Task in line 192 is similar to task in line 190 and shall be included as part of task in line 191 without changing time in line 191.
	195-196C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	197D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 197 are similar to tasks in lines 186 and 194. As an <u>additional resource driver</u> , the time for tasks in 197D shall be .5 minutes.
	200C, 200D	Decrease time for this task from 3 to 2 minutes to reflect statements made by SBC in February 3 transcript (8814:2-20) and Exhibit 31 pages 10-11. AT&T also argues that time should be 2 minutes.
	202C, 202D	Decrease times based on estimates in line 25.
IDLC Basic Hours	204-207, 209, 216-219aB	Change hourly rate to correct inconsistencies of base hour labor rates in SBC's cost study. SBC Witness Pearsons noted in his Testimony of January 7 that the labor rate for base hours (8 am to 5pm) are calculated by removing overtime and shift differentials from the average labor rate. See Exhibit 84 C at 10:15-24.
	216C	Decrease time from 30 to 7.5 minutes which reflects AT&T witness Turner's experience and experience of his peers. Specifically, Turner's analysis "assumes that the technician performs an average of four work orders when dispatched to the unmanned central offices". See Exhibit 115 C at 29.
	217D	Decrease time from 1 to .5 minutes. See AT&T Reply Brief at 146 and SBC Brief at 107 discussing time spent on LOC tasks. In addition, tasks in line 217 are similar to tasks in lines 205 and 215. As an <u>additional resource driver</u> , the time for tasks in 217D shall be .5 minutes.
	225C, 225D	Decrease times based on estimates in line 25.

(End of Appendix 4)



## Appendix 5 List of Appearances

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